Winter \*\*

### Flood Control Project Maintenance Levee Inspections

### **LMA District Cover Sheet**

**Spring 2020 Levee Inspection Results** 

## **Reclamation District No. 2060 Hastings**

Summer \*\*

Spring

	(March - May)	(June - August)	(September - November)	(December - February)
† Overall LMA Rating (Fall Only)				
	** Non-receipt of Summ Reports may effect o			
† SPRING INSPECTIONS: Overall maintenance deficiencies are rated	ratings are not detern d using the same crite			lual maintenance
FALL INSPECTIONS: The overall maintena within the attached u			ation and maintenance de tended to be an indiction	
Comments				

### **Unit Cover Sheet**

**Spring 2020 Levee Inspection Results** 

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles
Unit No. 01 Lindsey Slough	Left	6.97

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/17/2020 - 4/17/2020			
DWR Inspector	David Julian			
Accompanied By				

### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

## **Levee Inspection Report By Mile - Spring 2020**

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

LM Start		Rating **	Α	Issue No.		4	
LM End		Issue Type +	Ma	Location *			
Earthen Levee				GPS La	atituc	de/Longitude	
Category	Category			Start		End	
Item		Operations & Maintenance			0		0
пеш	Manuals				0		0
DWR ID	DWR_RD2	060_01_f _ 201	4_4				
		Comn	nent Cod	de			
	Inspector Comment						
RD 2060 h	as the O&	M Manual on	file.				

No Photos

LM Start		Rating **	Α	Issue No.		7		
LM End		Issue Type +	Ma	Location *				
Category	Catagon Earthen Levee GPS Latitude/Long					de/Longitude		
Calegory				Start		End		
Item	Emergency Supplies &				0		c	
пеш	Equipmer	nt		0			c	
DWR ID	DWR_RD2	060_01_f _ 201	4_7					
		Comn	nent Cod	de				
		Inspecto	or Comm	nent				
RD 2060 h	nas emerge	ency supplies	on hand					

No Photos

				12			
Issue Type +	Ма	Location *					
Category Earthen Levee			atitud	e/Longitude			
	Start		End				
Flood Preparedness & Training			0		0		
			0		0		
RD2060_01_s _ 20	12_12						
Comi	ment Cod	le					
Inspector Comment							
RD 2060 has trained staff for a flood fight.							
	en Levee Preparedness & RD2060_01_s _ 20 Comi	en Levee  Preparedness & Training  RD2060_01_s _ 2012_12  Comment Coc  Inspector Comm	en Levee GPS La Start  Preparedness & Training  RD2060_01_s _ 2012_12  Comment Code  Inspector Comment	en Levee GPS Latitud Start  Preparedness & Training  RD2060_01_s _ 2012_12 Comment Code  Inspector Comment	en Levee GPS Latitude/Longitude Start End  Preparedness & Training  RD2060_01_s _ 2012_12 Comment Code  Inspector Comment		

## **Levee Inspection Report By Mile - Spring 2020**

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

		D 11 ++					
LM Start	0.08	Rating **	М	Issue No.	19		
LM End	5.08	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Vegetation			38.2473	05 °	38.263296 °	
item			-121.697734 °		-121.771525 °		
DWR ID	DWR_RD2	060_01_s _ 202	20_19				
		Comn	nent Cod	de			
V1 : Control annual grass and weeds on the levee slopes and easements.							
Inspector Comment							

Photo 1 of 1: SP\_2020\_RD2060\_241\_19\_20200417\_00074.jpg



View looking upstream at vegetation on the waterside slope (Spring 2020).

LM Start	0.40	Rating **	С	Issue No.	5			
LM End	0.40	Issue Type +	Ма	Location *	WS			
Category Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
Item	Erosion /	Bank Caving		38.2478	94 °	38.247911 °		
пеш				-121.7034	92 °	-121.703539 °		
DWR ID	LMA-185				,			
Comment Code								

E1: Note and monitor erosion site.

### Inspector Comment

This has been corrected.

Levee Evaluation Comments

Description: Erosion commences approximately 3/4 of the way down the slope, near the water line towards the waterside toe.

Site ID No:358

Site Designation:LMA-185

Repair Type: Erosion

Rating: Area of Concern Field Date:7/12/2017

Notes: Small erosion into bank.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

### Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

LM Start	0.41	Rating **	С	Issue No.		8	
LM End	0.42	Issue Type +	Ma	Location *	WS		
Category	Earthen L	.evee		GPS Lat	itud	e/Longitude	
		Start		End			
ltom	Erosion /	Bank Caving		38.24803	3°	38.248017	0
Item				-121.70353	9 °	-121.703789	0
DWR ID	LMA-186						

E2: Schedule repair of erosion site prior to the next inspection.

### Inspector Comment

Comment Code

This has been corrected.

Levee Evaluation Comments

Description: Erosion commences approximately halfway down the water side slope extending in to existing rip rap. Existing rip rap appears to have been pulled off in this section.

Site ID No:359

Site Designation:LMA-186 Repair Type: Erosion Rating:Area of Concern Field Date:7/12/2017

Notes: Site had riprap but is eroded away. Minor erosion in toe of levee.

LM Start	0.75	Rating **	С	Issue No.		9	
LM End	0.76	Issue Type +	Ма	Location *	WS		
Category	Earthen L		GPS Latitude/Longitude				
Calegory			Start		End		
Itom	Erosion /	Bank Caving		38.2493	59 °	38.249400 °	
Item				-121.7095	06 °	-121.709608 °	
DWR ID	LMA-187						

Comment Code
E2 : Schedule repair of erosion site prior to the next inspection.

### Inspector Comment

This has been corrected.

Levee Evaluation Comments

Description: Erosion commences approximately halfway down the water side slope extending in to existing rip rap. Erosion is concentrated near the waterline. Existing rip rap appears to have been pulled off in this section.

Site ID No:360

Site Designation:LMA-187 Repair Type: Erosion Rating:Area of Concern Field Date:7/12/2017

Notes: Erosion looks old but has progressed this year.

No Photos

### Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

LM Start	0.92	Rating **	С	Issue No.		10	
LM End	0.93	Issue Type +	Ма	Location *	WS		
Catagony	Earthen L	.evee		GPS La	tituc	le/Longitude	
Category				Start		End	
Item	Erosion /	Bank Caving		38.2508	75 °	38.250953	٥
item				-121.7119	42 °	-121.712078	٥
DWR ID	LMA-188						

Comment Code

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

This has been corrected.

Levee Evaluation Comments

Description: Sloughing commences approximately halfway down the water side slope.

Site ID No:361

Site Designation:LMA-188 Repair Type: Erosion Rating:Area of Concern Field Date:7/12/2017

Notes: Minor sloughing, mostly riprap has moved down the slope and

into channel.

LM Start	1.04	Rating **	С	Issue No.		15
LM End	1.08	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	titud	le/Longitude
Calegory				Start		End
Item	Erosion /	Bank Caving		38.25105	8ē	38.250872 °
item				-121.71405	50 °	-121.714792 °
DWR ID	LMA-189					

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Comment Code

This has been corrected.

Levee Evaluation Comments

Description: Erosion commences approximately 3/4 of the way down the water side slope concentrated at the waterline.

Site ID No:362

Site Designation:LMA-189 Repair Type: Erosion Rating: Area of Concern Field Date:7/12/2017

Notes: Erosion due to lack of revetment. Erosion ends at riprap

downstream. Vertical cut at summer wse

No Photos

## Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

LM Start	1.09	Rating **	A/W	Issue No.		16	
LM End	1.10 Issue Type + Ma			Location *	WS		
Catagony	Earthen L	evee		GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Erosion /	Bank Caving		38.2508	44 °	38.250833 °	
пеш				-121.7149	44 °	-121.714994 °	
DWR ID	LMA-190						

Comment Code

E1: Note and monitor erosion site.

Inspector Comment

This was a 2017 Storm Damage site.

Erosion at the waterside toe.

Site ID No:363

Site Designation:LMA-190

4/17/2020 Field Notes: Unable to view erosion due to thick vegetation.

Verify using a boat survey. Monitor.





Photo 2 of 2: SP 2020 RD2060 241 16 20200304 00021.jpg



Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

onitor & Maintain En : Enforcement

## Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

	4 20	Rating **	A/W	Issue No.		20
LM Start	1.39	Rating	A/VV	issue ivo.		20
LM End	1.43	Issue Type +	Ma	Location *	WS	
Category	Earthen L	.evee		GPS Lat	itud	le/Longitude
Calegory				Start		End
Item	Erosion /	Bank Caving		38.25188	6 °	38.251910 °
пеш				-121.71993	3°	-121.720620 °
DWR ID	LMA-192	_MA-192				

Comment Code

E1: Note and monitor erosion site.

Inspector Comment

This was a 2017 Storm Damage site.

Erosion commences approximately halfway down the water side slope extending to the toe.

Site ID No:365

Site Designation:LMA-192

4/17/2020 Field Notes: Do a boat inspection to get a better view of

LM Start	1.39	Rating **	A/W	Issue No.	20 (cont)
LM End	1.43	Issue Type +	Ma	Location *	WS



Photo 2 of 2: SP\_2020\_RD2060\_241\_20\_20200304\_00025.jpg



N/A: Not Applicable LS : Land Side

WS : Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated

C : Corrected

A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

## Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

LM Start	1.43	Rating **	М	Issue No.	6		
LM End	1.57	Issue Type +	Ма	Location *		WS	
Category	Supplemental			GPS L	atitud	e/Longitude	
Calegory		Start		End			
Item	2017 USA	CE Erosion S	38.251910 °		38.252605	0	
				-121.720620 °		-121.722924	0
DWR ID	DWR_RD2	060_01_f _ 201	8_6				
		Comn	nent Cod	de			
	Inspector Comment						
2017 Sito	ID- I DC 1	7					

2017 Site ID: LDS 1.7 L Status: Eroding New

2017 Field Notes: Soil is boulders and sand. Multiple slumping sections.

Site History:

LM Start	1.45	Rating **	A/W	Issue No.	11			
LM End	1.49	Issue Type +	Ма	Location *		WS		
Earthen Levee			GPS La	atitud	le/Longitude			
Category				Start		End		
Slope Stability				38.2520	13 °	38.252154 °		
пеш				-121.720945 °		° -121.721671		
DWR ID	DWR_RD2	060_01_s _ 201	7_11					
		Comn	nent Cod	de				
S1 : Repai	r slope ins	tability.						
		Inspecto	or Comm	nent				

Waterside slope slump from 2017 has not moved since discovered. Initial cause was clay materials, cattle and wet weather. Continue to monitor.

No Photos

No Photos

LS : Land Side N/A: Not Applicable WS : Water Side

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En : Enforcement

### Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

LM Start	1.81	Rating **	A/W	Issue No.	21			
LM End	1.84	Issue Type +	Ма	Location *	WS			
Category	GPS La	tituc	le/Longitude					
Calegory				Start		End		
Item	Erosion /	Bank Caving		38.25597	'2 °	38.256247	0	
пеш				-121.72419	7 °	-121.724464	0	
DWR ID	LMA-193							
	Comment Code							

E1: Note and monitor erosion site.

### Inspector Comment

This was a 2017 Storm Damage site.

Erosion commences approximately halfway down the water side slope extending to the toe. Some slipping into the toe has occurred due to deep erosion.

Site ID No:366

Site Designation:LMA-193

4/17/2020 Field Notes: Do a boat inspection to get a better view of erosion.

Photo 1 of 1: SP_2020_RD2060_241_21_20200304_00027.jpg	J



LM Start	1.90	Rating **	С	Issue No.	22		
LM End	1.90	Issue Type +	Ма	Location *	WS		
Category	Earthen L	evee		GPS Lat	itud	e/Longitude	
Calegory				Start		End	
Item	Erosion /	Bank Caving		38.25720	8 °	38.257208	٥
пеш				-121.72461	9 °	-121.724619	٥
DWR ID	LMA-194						

Comment Code E2 : Schedule repair of erosion site prior to the next inspection.

### Inspector Comment

This has been corrected.

Levee Evaluation Comments

Description: Erosion commences approximately halfway down the water side slope extending to the toe. Some slipping into the toe has occurred. Site ID No:367

Site Designation:LMA-194

Repair Type: Erosion Rating:Area of Concern

Field Date:7/12/2017

Notes: Minor cracking observed below the hinge point and minor

erosion at levee toe.

## Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

LM Start	<b>2.10</b> Rating ** A/W		Issue No.		23	
LM End	2.13	Issue Type +	Ма	Location * W		WS
Category Earthen Levee			GPS La	titud	e/Longitude	
Calegory				Start		End
Itom	Item Erosion / Bank Caving			38.2593	17 °	38.259258
пеш				-121.7263	14 °	-121.726939
DWR ID	LMA-195					

Comment Code E1 : Note and monitor erosion site.

Inspector Comment

This was a 2017 Storm Damage site.

Erosion commences approximately halfway down the water side slope extending to the rip rap.

Site ID No:368

Site Designation:LMA-195

4/17/2020 Field Notes: Do a boat inspection to get a better view of

Photo 1 of 1: SP\_2020\_RD2060\_241\_23\_20200304\_00033.jpg

LM Start	2.57	Rating **	С	Issue No.	24		
LM End	2.60	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS Lat	titud	le/Longitude	
Calegory				Start		End	
Item	Erosion /	Bank Caving		38.25746	7°	38.257286	0
пеш				-121.73415	3°	-121.734683	0
DWR ID	LMA-196						

Comment Code

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

This has been corrected.

Levee Evaluation Comments

Description: Erosion commences approximately halfway down the water side slope. Part of the levee has sloughed down toward the waterline where further erosion occurs.

Site ID No:369

Site Designation:LMA-196

Repair Type: Erosion Rating:Area of Concern

Field Date:7/13/2017

Notes: Levee slope is concave due slumping. Erosion at waterline.

No Photos

\* Location
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

N : Not Inspected/Rated M : Maintenance Deficiancy
C : Corrected

N : Not Inspected/Rated M : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

## Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

LM Start	3.07	Rating **	U	Issue No.	25			
LM End	3.10	Issue Type +	Ma	Location *	WS			
Category	GPS La	titud	e/Longitude					
Category			Start		End			
Item	Erosion / Bank Caving			38.26077	72 °	38.260569	٥	
пеш		-121.7408	17°	-121.741194	0			
DWR ID	LMA-197							
		Comn	nent Coc	le				
E2 : Sched	E2 : Schedule repair of erosion site prior to the next inspection.							
			_					

Inspector Comment

This was a 2017 Storm Damage Site

Large erosion halfway into levee. Horizontal cracking on slope almost

Site ID No:370

Site Designation:LMA-197





Photo 2 of 2: SP\_2020\_RD2060\_241\_25\_20200304\_00040.jpg



LS: Land Side N/A: Not Applicable

WS : Water Side

CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

## Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

LM Start	3.17	Rating **	С	Issue No.	26		
LM End	3.17	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS La	titud	e/Longitude	
Calegory				Start		End	
Item	Erosion / Bank Caving			38.25992	25 °	38.259903	0
item				-121.74223	86 °	-121.742281	0
DWR ID	LMA-198						
		_					

Comment Code

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

This has been corrected.
Levee Evaluation Comments

Description: Erosion occurs near the waterline.

Site ID No:371

Site Designation:LMA-198 Repair Type: Erosion Rating:Area of Concern Field Date:7/13/2017

Notes: Minor erosion with sloughing. Horizontal cracks 3.5' deep.

Photo 1 of 2 : SP_2020	_RD2060_	_241_	27_	_20200304_	_00045	.jpg

No Photos



#### Rating \*\* Issue No. 3.60 A/W 27 LM Start LM End Issue Type + Location \* WS 3.61 Ма Earthen Levee GPS Latitude/Longitude Category Start End Erosion / Bank Caving 38.261469° 38.261464 ° Item -121.748389 -121.748442 DWR ID LMA-200

Comment Code

Inspector Comment

2017 Storm Damage Site

Erosion commences halfway down the slope and extends to the toe.

Erosion is concentrated at the water line.

Site ID No:373

Site Designation:LMA-200 4/6/2020 note: Planned for repair.

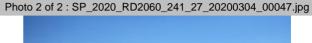
E1: Note and monitor erosion site.

### Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

LM Start	3.60	Rating **	A/W	Issue No.		27 (cont)	
LM End	3.61	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	tituc	le/Longitude	
Calegory				Start		End	
Item	Erosion /	Bank Caving		38.2614	69°	38.261464	0
itelli				-121.7483	89 °	-121.748442	0
DWR ID	/R ID LMA-200						





LM Start	3.65	Rating **	М	Issue No.		35	
LM End	3.65	Issue Type +	En	Location *			
Category				GPS La	atitude/Longitude		
Calegory				Start		End	
Item	DWR UC	VR UCIP Field Study			14 °	38.261314	
пеш				-121.7491	91 °	-121.749191	
DWR ID	22050						
	Comment Code						

### Inspector Comment

DS\_ID:22050 FS\_ID:41908 EP\_NO: 10119

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 09/19/2018 Updated record to reflect correct permit, historic levee log showed Permit No. 10119 correct Permit No. is 12784. Permit No. 10119 was issued for overhead lines. (O. Magana -DWR UCIP)

08/15/2013 Need to contact owner and verify status of crossing. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 8.625-inch steel natural gas pipeline through the levee, at an unknown depth. Gas line marker on the landside (LS). Sign board on the waterside (WS). (8.625-inch pipeline installed across the channel and both levees of Lindsey Slough authorized under Permit No. 12784, 1979 - Pacific Gas and Electric Company [PG&E]; 8.625inch line referenced incorrectly as part of Permit No. 10119, 1975 -PG&E, correct Permit No. is 12784). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013

Photo 1 of 2: UCIP\_SP\_2020\_41908\_30541.jpg



WS view: gasline sign board on levee slope.

## Levee Inspection Report By Mile - Spring 2020

# **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

LM Start	3.65	Rating **	М	Issue No.		35 (cont)	
LM End	3.65	Issue Type +	En	Location *			
Supplemental				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	P Field Study		38.2613	14 °	38.261314	•
iteiii				-121.7491	91 °	-121.749191	٥
DWR ID							



LS view: gasline indicator across the road from levee toe.

LM Start	3.67	Rating **	A/W	Issue No.		28	
LM End	3.67	Issue Type +	Ma	Location *		WS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Erosion /	osion / Bank Caving			81 °	38.261167°	
пеш				-121.7495	42 °	-121.749592 °	
DWR ID	DWR ID LMA-201						
		Comn	nent Cod	de			
E1: Note a	and monito	or erosion site					
	Inspector Comment						
Erosion is concentrated near the water line. Site ID No:374 Site Designation:LMA-201							
Cite Desig	Site Designation.LiviA-201						

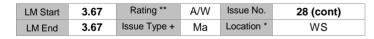




Photo 2 of 2: SP\_2020\_RD2060\_241\_28\_20200304\_00049.jpg



\* Location

LS : Land Side N/A : Not Applicable

4/6/2020 Notes: Planned for repair.

WS : Water Side

CR : Crown

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated otable C : Corrected

C : Corrected

A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En : Enforcement

### Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

							_						
LM Start	3.74	Rating **	М	Issue No.		17							
LM End	5.08	Issue Type +	Ma	Location *		LS							
Category	Earthen L	evee		GPS La	e/Longitude								
Category			Start		End								
Item	Vegetatio	on 38.261179 °		38.263295	0								
пеш				-121.750797 °		-121.771526	0						
DWR ID	DWR_RD2	060_01_s _ 202	20_17										
		Comn	nent Cod	de									
	V1 : Control annual grass and weeds on the levee slopes and easements.												
	Inspector Comment												



View looking upstream at vegetation on the landside slope (Spring 2020).

LM Start	3.76	Rating **	М	Issue No.	36		
LM End	3.76	Issue Type +	En	Location *			
Category	Suppleme	ental		GPS La	titud	le/Longitude	
Calegory				Start		End	
Item	DWR UCIP Field Study			38.2612	11 °	38.261211 °	
item				-121.7511	17°	-121.751117 °	
DWR ID 22045							
	Comment Code						

### Inspector Comment

DS\_ID:22045 FS\_ID:41878 EP\_NO: 12784

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 09/19/2018 Based on permit number 12784 review, 8.625-inch line should cross at RD2060U1 CLM 3.756 however, the markers for this crossing show the line crosses at RD2060U1 CLM 3.648 instead. Need to request line alignment for this crossing and update record. This could be a duplicate record of dsid 22050. (O. Magana - DWR UCIP)

08/15/2013 Need to contact owner to determine status and install signs if appropriate. (P. Amatya - DWR UCIP)

FIELD\_STRUCT\_DESC: 8.625-inch steel natural gas pipeline through the levee, 4 feet below the crown. Gas line marker off the landside (LS) toe. (To construct an 8.625-inch pipeline across the channel and both levees of Lindsey Slough authorized under Permit No. 12784, 1979 -Pacific Gas and Electric Company [PG&E]).

FS Date: 8/15/2013

### Photo 1 of 3: UCIP\_SP\_2020\_41878\_30549.jpg



LS view: a gas plant and gasline indicator found on LS.

## **Levee Inspection Report By Mile - Spring 2020**

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

LM Start	3.76	Rating **	М	Issue No.		36 (cont)	
LM End	3.76	Issue Type +	En	Location *			
Category				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	P Field Study		38.2612	11 °	38.261211 °	
item			-121.7511	17 °	-121.751117 °		
DWR ID	22045						



LS view: closer view of gasline indicator found on LS.

LM Start	3.76	Rating ** M		Issue No.	36 (cont)
LM End	3.76	Issue Type +	En	Location *	



WS view: no indicators found on WS.

LM Start	4.28	Rating **	A/W	Issue No.		29	
LM End	4.28	Issue Type +	Ма	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
ltem	Item Erosion / Bank Caving			38.260992 °		38.261017 °	
пеш				-121.759806 °		-121.759847 °	
DWR ID	D LMA-203						
Comment Code							

E1: Note and monitor erosion site.

### Inspector Comment

This was a 2017 Storm Damage site.

Erosion commences halfway down the slope and extends to the toe.

Erosion is concentrated at the water line.

Site ID No:376

4/17/2020 Field Notes: Could not get to erosion due to dense vegetation. A boat survey will allow for a better inspection.

Photo 1 of 1 : SP_2020_RD2060_241_29_20200304_00051.jpg
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### Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

LM Start	4.40	Rating **	A/W	Issue No.		30		
LM End	4.46	Issue Type +	Ма	Location *		WS		
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Item	Erosion / Bank Caving			38.2608	50 °	38.260425		
item			-121.761875 °		-121.762861			
DWR ID	LMA-204							

### Comment Code

E1: Note and monitor erosion site.

### Inspector Comment

This was a 2017 Storm Damage site.

Erosion/sloughing commences approximately halfway down the slope. Erosion is concentrated mostly near the water line and has resulting in slippage of the slope.

Site ID No:377

Site Designation:LMA-204

4/17/2020 Field Notes: Vegetation thick to properly rate. A boat survey will provide a better inspection.



LM Start	4.46	Rating **	М	Issue No.		37	
LM End	4.46	Issue Type +	En	Location *			
Category	Supplemental			GPS Latitude/Longitude			
Category				Start		End	
Item	DWR UCI	P Field Study		38.26041	4 °	38.260414	0
пеш				-121.76294	3 °	-121.762943	0
DWR ID	22051						

### Comment Code

### Inspector Comment

DS\_ID:22051 FS\_ID:41988 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: Dense vegetation on both levee slopes.

FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch pipe of an unknown material or purpose through the levee, 17 feet below the crown. Inoperable closed slide gate on the waterside (WS) end. (Hastings Farms. Not on encroachment list). [Additional Reference(s): DWR Levee Log, 2005].

FS Date: 8/15/2013

## Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

LM Start	4.50	Rating **	U	Issue No.	31		
LM End	4.53	Issue Type +	Ма	Location *	WS		
Catagony	evee	GPS La	tituc	le/Longitude			
Category			Start		End		
Item	Erosion / Bank Caving			38.260150 °		38.259939 °	
пеш				-121.763556 °		-121.764064 °	
DWR ID	LMA-205						
Comment Code							
E2 : Schedule repair of erosion site prior to the next inspection.							

Inspector Comment

This was a 2017 Storm Damage site.

Deep, wide, vertical cut into slope almost 1/2 way into sope.

Site ID No:378

Site Designation:LMA-205

LM Start	4.50	Rating **	U	Issue No.	31 (cont)
LM End	4.53	Issue Type +	Ma	Location *	WS



View looking downstream at erosion into the waterside slope (Spring 2020).

Photo 2 of 2: SP\_2020\_RD2060\_241\_31\_20200417\_00077.jpg



View looking upstream at erosion into the waterside slope (Spring 2020).

LM Start	4.88	Rating **	М	Issue No.		32		
LM End	4.88	Issue Type +	Ma	Location *	WS			
Category Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
ltem	Item Erosion / Bank Caving			38.261769 °		38.261769 °		
item				-121.768504 °		-121.768504°		
DWR ID LMA-206								
Comment Code								
E2 · Cobo	E2 : Schodula renair of arcaion site prior to the payt inspection							

E2 : Schedule repair of erosion site prior to the next inspection.

### Inspector Comment

This was a 2017 Storm Damage site. Erosion into the waterside toe.

Site ID No:379

Site Designation:LMA-206

### Photo 1 of 1: SP\_2020\_RD2060\_241\_32\_20200417\_00078.jpg



View of erosion into the waterside toe (Spring 2020).

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## **Levee Inspection Report By Mile - Spring 2020**

# **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

LM Start	4.92	Rating **	М	Issue No.		33		
LM End	4.92	Issue Type +	Ma	Location *		WS		
Category	Earthen Levee			GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Erosion /	Bank Caving		38.2621	28 °	38.262128 °		
пеш	item			-121.769175 °		-121.769175 °		
DWR ID LMA-207								
		Comn	nent Cod	de				
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spe	ction.		
		Inspecto	or Comm	nent				
This was a	This was a 2017 Storm Damage site.							
Erosion on the waterside toe.								
Site ID No:380 Site Designation:LMA-207								



 LM Start
 4.92
 Rating \*\*
 M
 Issue No.
 33 (cont)

 LM End
 4.92
 Issue Type +
 Ma
 Location \*
 WS

Photo 2 of 2 : SP\_2020\_RD2060\_241\_33\_20200304\_00064.jpg



							_
LM Start	5.00	Rating **	М	Issue No.		34	
LM End	5.00	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Erosion /	Bank Caving		38.2626	36°	38.262636	0
пеш					03 °	-121.770503	0
DWR ID	LMA-208						
		Comn	nent Cod	de			
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spe	ction.	
Inspector Comment							
This was a 2017 Storm Damage site. Erosion into the waterside toe.							

Site ID No:381

Site Designation:LMA-208



\* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

\*\* Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy

M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence

U: Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

## Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	04/17/2020 04/17/2020	David Julian

LM Start	5.00	Rating **	М	Issue No.		34 (cont)	
LM End	5.00	Issue Type +	Ma	Location *	ocation * WS		
Earthen Levee				GPS Latitude/Longitude			
Category				Start		End	
Item	Erosion /	Bank Caving		38.2626	36 °	38.262636 °	
item			-121.7705	03 °	-121.770503 °		
DWR ID	LMA-208						



Rating \*\* Issue No. LM Start 5.26 Μ 18 6.20 Issue Type + Ма Location \* CR LM End Earthen Levee GPS Latitude/Longitude Category Start End Vegetation 38.261398° 38.266901 -121.773098 -121.788093 ° DWR ID DWR\_RD2060\_01\_s \_ 2020\_18 Comment Code V9: Keep the crown roadway free of vegetation. Inspector Comment

### **Unit Cover Sheet**

**Spring 2020 Levee Inspection Results** 

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles
Unit No. 02 Ulatis Creek	Right	3.64

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/17/2020 - 4/17/2020			
DWR Inspector	David Julian			
Accompanied By				

### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

## **Levee Inspection Report By Mile - Spring 2020**

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	04/17/2020 04/17/2020	David Julian

LM Start	0.00	Rating **	М	Issue No.	13		
LM End	0.00	Issue Type +	En	Location *			
Category Supplemental			GPS La	atitud	le/Longitude		
			Start		End		
Item	DWR UC	P Field Study		38.2894	74 °	38.289474 °	
пеш				-121.775914 ° -121.77591			
DWR ID 22059							
Comment Code							

### Inspector Comment

DS\_ID:22059 FS\_ID:46769 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: - Abandoned pump structure in stream needs proper

abandonment- Not accessible due to wired fence

FIELD\_STRUCT\_DESC: \*ABANDONED\* Pump structure in stream. Concrete distribution box on the landside (LS) slope. Not accessible due to a wire fence. [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 8/15/2013

LM Start	0.00	Rating **	M	Issue No.	13 (cont)
LM End	0.00	Issue Type +	En	Location *	



WS view: abandoned pump support in stream/channel. Not accessible due to vegetation.





LS view: abandoned concrete distribution box. Not accessible due to

## **Levee Inspection Report By Mile - Spring 2020**

# **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	04/17/2020 04/17/2020	David Julian

LM Start	0.12	Rating **	М	Issue No.		2		
LM End	1.78	Issue Type +	En	Location *	WS			
Earthen Levee				GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Encroachments			38.2763	51 °	38.285819 °		
item			-121.795922 °		-121.776942 °			
DWR ID	DWR_RD2	060_02_s _ 201	17_2					
		Comn	nent Cod	le				
FE : Fence	)							
Inspector Comment								
This fence has no permit.								



Barbed wire fence on waterside has no permit.

LM Start	0.14	Rating **	М	Issue No.	5			
LM End	1.74	Issue Type +	En	Location *	LS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Encroachments			38.2766	14 °	38.285270 °		
пеш				-121.795990 °		-121.777076 °		
DWR ID	DWR_RD2	060_02_s _ 201	19_5					
		Comn	nent Cod	de				
FE : Fence	)							
Inspector Comment								
Fence has no permit.								



View looking upstream at fence at the landside toe (Spring 2019).

LM Start	0.22	Rating **	С	Issue No.	6		
LM End	0.22	Issue Type +	Ma	Location *	CR		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory		Start		End			
ltom	Crown Surface / Depressions / Rutting			38.277807 °		38.277807 °	
item				-121.795928 °		-121.795928°	
DWR ID	DWR_RD2	060_02_f _ 201	9_6				
		Comn	nent Coo	le			
C2 : Repa	ir depressi	ons or ruts in	the crow	n or slope.			
		Inspecto	or Comm	ent			

## **Levee Inspection Report By Mile - Spring 2020**

# **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	04/17/2020 04/17/2020	David Julian

LM Start	0.71	Rating **	U	Issue No.	11			
LM End	0.71	Issue Type +	Ma	Location *	CR			
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Calegory			Start		End			
Item	Crown Surface / Depressions /			38.284945 °		38.284945 °		
Rutting			-121.795743 °		-121.795743 °			
DWR ID	DWR_RD2	060_02_s _ 202	20_11			·		
		Comn	nent Coc	le				
C2 : Repai	r depressi	ons or ruts in	the crow	n or slope.				
		Inspecto	or Comm	ent				

## Photo 1 of 1 : SP\_2020\_RD2060\_242\_11\_20200420\_00014.jpg



View of large rut on the crown (Spring 2020).

LM Start	0.74	Rating **	М	Issue No.		10	
LM End	1.73	Issue Type +	Ma	Location *	WS		
Category Earthen Levee			GPS La	atitud	e/Longitude		
Category				Start		End	
Item	Vegetation			38.285166 °		38.285203 °	
item			-121.795386 °		-121.777111 °		
DWR ID	DWR_RD2	060_02_s _ 202	20_10				
		Comn	nent Cod	de			
V1 : Control annual grass and weeds on the levee slopes and easements.						and	
	Inspector Comment						



View looking downstream of annual vegetation on the waterside slope (Spring 2020).

### Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	04/17/2020 04/17/2020	David Julian

LM Start	0.74	Rating **	М	Issue No.		7		
LM End	1.73	Issue Type +	Ma	Location *	LS			
Category Earthen Levee			GPS La	atitud	e/Longitude			
Category				Start		End		
Item	Vegetation			38.285166 °		38.285204°		
item			-121.795386 °		-121.777111 °			
DWR ID	DWR_RD2	060_02_s _ 202	20_7					
		Comn	nent Cod	de				
V1 : Control annual grass and weeds on the levee slopes and easements.						and		
	Inspector Comment							
	4							



View looking downstream at annual vegetation on the landside slope (Spring 2020).

LM Start	1.74	Rating **	М	Issue No.		14		
LM End	1.74	Issue Type +	En	Location *				
Category				GPS Latitude/Longitude				
Calegory			Start		End			
Item	DWR UC	P Field Study		38.2852	19°	38.285219°		
item				-121.7770	85 °	-121.777085 °		
DWR ID	22056							
	Comment Code							

## Inspector Comment

DS\_ID:22056 FS\_ID:18386 EP\_NO: 10148

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: U-type conrete headwall on LS. Not accessible due to fence. Vegetation is partially blocking inlet & outlet pipe.

FIELD\_STRUCT\_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Flap gate on the waterside (WS) end. Concrete U-shaped headwall on the landside (LS) end. Not accessible due to a fence. Vegetation is partially blocking the inlet and the outlet of the pipe. (24-inch drainage pipe through the levee and a flap gate retained under Automatic Board Order (ABO) issued as Permit No. 10148, 1974 - Reclamation District No. 2060, care of G. T. Wyatt). [Additional Reference(s): DWR Levee Log, 2005].

FS Date: 8/15/2013

Photo 1 of 3: UCIP\_SP\_2020\_18386\_30873.jpg



WS view: overview of CMP from levee.

## **Levee Inspection Report By Mile - Spring 2020**

# **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	04/17/2020 04/17/2020	David Julian

LM Start	1.74	Rating **	М	Issue No.	14 (cont)	
LM End	1.74	Issue Type +	En	Location *		
Category			GPS Latitude/Longitude			
Calegory				Start		End
Item	DWR UC	P Field Study		38.2852	19 °	38.285219 °
пеш				-121.7770	85 °	-121.777085 °
DWR ID	22056					



WS view: CM pipe with flap gate. Not accessible. Vegetation is partially blocking outlet pipe.

LM Start	1.74	Rating **	М	Issue No.	14 (cont)
LM End	1.74	Issue Type +	En	Location *	



LS view: CM pipe with U shaped concrete headwall. Not accessible.

Vegetation is partially blocking inlet pipe.

### Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	04/17/2020 04/17/2020	David Julian

LM Start	2.15	Rating **	М	Issue No.	15			
LM End	2.15	Issue Type +	En	Location *				
Category				GPS Latitude/Longitude				
Category			Start		End			
Item	DWR UC	IP Field Study		38.29044	10 °	38.290440	0	
пеш				-121.77480	08°	-121.774808	0	
DWR ID	22060							
	Comment Code							

### Inspector Comment

DS\_ID:22060 FS\_ID:41668 EP\_NO: 5927

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: verify pipe has been abandoned properly. - abandoned pump and pipe.- electrical box on WS shoulder. FIELD\_STRUCT\_DESC: \*ABANDONED\* 18-inch steel irrigation discharge pipe through the levee, 4 feet below the crown. Corrugated metal cutoff wall. Pump on a piling structure on the riverbank. Siphon breaker on the landside (LS) slope. Concrete distribution box and irrigation ditch at the LS toe. (To relocate an existing irrigation pumping plant and discharge pipe through the levee authorized under Permit No. 5927, 1967 - Cache Slough Pheasant Hunting Preserve, Inc., care of Downey, Brand, Seymour, and Rohwer, Attorneys at Law). [Additional Reference(s): DWR Levee Log, 2005].

LM Start	2.15	Rating **	М	Issue No.	15 (cont)
LM End	2.15	Issue Type +	En	Location *	



WS view: electrical box on pole and pump structure in background.

### Photo 2 of 3: UCIP\_SP\_2020\_41668\_31160.jpg



WS view: pump on pile structure with stairs on bank.

## **Levee Inspection Report By Mile - Spring 2020**

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	04/17/2020 04/17/2020	David Julian

LM Start	2.15	Rating **	М	Issue No.	15 (cont)	
LM End	2.15	Issue Type +	En	Location *		
Supplemental			GPS Latitude/Longitude			
Category				Start		End
Item	DWR UCIP Field Study		38.2904	40 °	38.290440	
item		-121.7748	08 °	-121.774808		
DWR ID	22060					



LS view: obstructed siphon breaker in steel riser on levee slope.

LM Start	2.52	Rating **	М	Issue No.		8	
LM End	2.52	Issue Type +	Ма	Location *	LS		
Category Earthen Levee				GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Animal Control			38.290866 °		38.290866 °	
item			-121.768068 °		-121.768068°		
DWR ID	DWR_RD2	060_02_f _ 201	9_8				
		Comn	nent Cod	le			
A2 : Repair the levee slope damaged by livestock and prevent large animal access.							
Inspector Comment							
Cow path i	Cow path is located on the landside slope.						



View looking downstream at cow path on the landside slope (Fall 2019).

LM Start	2.60	Rating **	М	Issue No.	9		
LM End	2.99	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS Latitude/Longitude			
Calegory	<u> </u>					End	
Item	Animal Control			38.291315 °		38.293390°	
item			-121.766569 °		-121.760008 °		
DWR ID	DWR_RD2	060_02_f _ 201	9_9			·	
		Comn	nent Cod	de			
A2 : Repair the levee slope damaged by livestock and prevent large animal access.							
Inspector Comment							
Terracing on the levee due to cows.							

Photo 1 of 1: SP_2020_RD2060_242_9_20200304_00005.jpg

View looking downstream at terracing in the levee due to cows (Fall 2019).

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## **Levee Inspection Report By Mile - Spring 2020**

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	04/17/2020 04/17/2020	David Julian

LM Start	3.12	Rating **	М	Issue No.		12			
LM End	3.64	Issue Type +	Ma	Location *	CR				
Category	Category Earthen Levee				GPS Latitude/Longitude				
Cutogo, y				Start		End			
Item	Vegetation			38.2941	24 °	38.296664 °			
item			-121.757708 °		-121.748826 °				
DWR ID	DWR_RD2	060_02_s _ 202	20_12						
		Comn	nent Cod	le					
V9 : Keep	the crown	roadway free	of veget	ation.					
Inspector Comment									

### **Unit Cover Sheet**

**Spring 2020 Levee Inspection Results** 

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles
Unit No. 03 Cache Slough	Right	5.03

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/17/2020 - 4/17/2020			
DWR Inspector	David Julian			
Accompanied By				

### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

## **Levee Inspection Report By Mile - Spring 2020**

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/17/2020 04/17/2020	David Julian

LM Start	0.07	Rating **	М	Issue No.		16
LM End	0.07	Issue Type +	Ма	Location *		LS
Category	evee	GPS La	atitud	e/Longitude		
Category			Start		End	
Item	Slope Sta		38.2963	50°	38.296302 °	
Item			-121.747642 °		-121.747565 °	
DWR ID	DWR_RD2	060_03_s _ 201	7_16			
		Comn	nent Cod	de		
S1 : Repai	S1 : Repair slope instability.					
Inspector Comment						
Sloughing is occurring on the LS slope.						



Standing on the slope looking upstream at the slough.

LM Start	0.10	Rating **	A/W	Issue No.		71		
LM End	0.10	Issue Type +	Ма	Location *		LS		
Category	Earthen L	evee	GPS La	atitud	e/Longitude			
Category				Start		End		
Item	Slope Sta	bility		38.2960	84 °	38.296084 °		
пеш				-121.7470	52 °	-121.747052 °		
DWR ID	DWR_RD2	060_03_s _ 201	8_71					
		Comn	nent Cod	de				
S1 : Repai	r slope ins	tability.						
Inspector Comment								
Minor slum	Minor slump at toe likely due to cattle should be repaired.							



View looking upstream at minor slump on the lower half of the landside slope (Fall 2019).

LM Start	0.12	Rating **	A/W	Issue No.	13	
LM End	0.18	Issue Type +	Ма	Location *	LS	
Category	Category Earthen Levee				atitud	e/Longitude
Calegory	Calegory					End
Item	Slope Sta	bility		38.2959	19 °	38.295611
item				-121.7467	00 °	-121.745742
DWR ID	LMA-212					
		Comn	nent Cod	le		
S1 : Repai	r slope ins	tability.				
		Inspecto	or Comm	ent		
This was a 2017 Storm Damage site. Sloughing and seepage occurs near the land side toe. Site ID No:385 Site Designation:LMA-212						



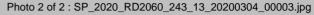
* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

## **Levee Inspection Report By Mile - Spring 2020**

# **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/17/2020 04/17/2020	David Julian

LM Start	0.12	Rating **	A/W	Issue No.		13 (cont)
LM End	0.18	Issue Type +	Ma	Location *		LS
Category Earthen Levee				GPS Latitude/Longitude		
Calegory				Start		End
Item	Slope Sta	bility		38.2959	19 °	38.295611 °
пеш				-121.7467	00°	-121.745742 °
DWR ID	LMA-212					·





LM Start	0.13	Rating **	М	Issue No.		19	
LM End	0.19	Issue Type +	Ма	Location *	LS		
Category	evee	GPS Latitude/Longitude					
Category				Start		End	
Item	Animal Co		38.2959	15 °	38.295559 °		
item	item				83°	-121.745583 °	
DWR ID	DWR_RD2	060_03_f _ 201	9_19				
		Comn	nent Cod	de			
A2 : Repair the levee slope damaged by livestock and prevent large animal access.							
Inspector Comment							
Terracing	Terracing due to cows walking on the landside slope.						

Photo 1 of 1: SP\_2020\_RD2060\_243\_19\_20200420\_00082.jpg



View looking downstream at terracing due to cows on the landside slope (Spring 2020).

0.20	Rating **	M	Issue No.		6	
0.50	Issue Type +	Ма	Location *		CR	
Category Earthen Levee					e/Longitude	
					End	
Vegetation				13 °	38.292604	0
	-121.7453	33 °	-121.741687	0		
DWR_RD2	060_03_s _ 202	20_6				
	Comn	nent Cod	le			
V9 : Keep the crown roadway free of vegetation.						
Inspector Comment						
	0.50 Earthen L Vegetation	0.50 Issue Type + Earthen Levee  Vegetation  DWR_RD2060_03_s _ 202  Comm the crown roadway free	0.50 Issue Type + Ma  Earthen Levee  Vegetation  DWR_RD2060_03_s _ 2020_6  Comment Coo the crown roadway free of veget	0.50         Issue Type +         Ma         Location *           Earthen Levee         GPS La         Start           Vegetation         38.2955         -121.7453           DWR_RD2060_03_s _ 2020_6         Comment Code           the crown roadway free of vegetation.	0.50 Issue Type + Ma Location *  Earthen Levee GPS Latitud Start  Vegetation 38.295513 ° -121.745333 °  DWR_RD2060_03_s _ 2020_6 Comment Code the crown roadway free of vegetation.	0.50         Issue Type +         Ma         Location *         CR           Earthen Levee         GPS Latitude/Longitude           Start         End           Vegetation         38.295513 ° 38.292604           -121.745333 ° -121.741687           DWR_RD2060_03_s _ 2020_6           Comment Code           the crown roadway free of vegetation.

## **Levee Inspection Report By Mile - Spring 2020**

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/17/2020 04/17/2020	David Julian

LM Start	0.53	Rating **	М	Issue No.		8
LM End	1.15	Issue Type +	Ма	Location *	LS	
Catagonia Earthen Levee				GPS La	atitud	e/Longitude
Category				Start		End
Item	Vegetation			38.2921	96 °	38.290552 °
пеш			-121.741389 °			-121.731109 °
DWR ID	DWR_RD2	060_03_s _ 202	20_8			
		Comn	nent Cod	le		
V1 : Control annual grass and weeds on the levee slopes and easements.						
Inspector Comment						



View looking downstream at annual vegetation on the landside slope (Spring 2020).

LM Start	0.64	Rating **	U	Issue No.	14	
LM End	0.64	Issue Type +	Ма	Location *	WS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory			Start		End	
Item	Erosion /		38.2921	97 °	38.292208 °	
пеш	item				61 °	-121.739611 °
DWR ID	LMA-213					
		Comn	nent Cod	de		
E2 : Sche	dule repair	of erosion sit	e prior to	the next in	spe	ction.
Inspector Comment						
This was a 2017 Storm Damage site. Relatively deep erosion spot into waterside slope						

Relatively deep erosion spot into waterside slope
Site ID No:386
Site Designation:LMA-213



View looking upstream at erosion into the waterside slope (Spring 2020).

LM Start	0.81	Rating **	A/W	Issue No.		15	
LM End	0.81	Issue Type +	Ма	Location *	WS		
Category Earthen Levee				GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Erosion /	Bank Caving		38.2916	33 °	38.291606 °	
пеш			-121.736750 °		-121.736714 °		
DWR ID	LMA-215						
		Comn	nent Cod	le			
E1 : Note a	and monito	or erosion site	•				
		Inchecto	or Comm	ont			
		Пореск	JI COIIIII	ieiit			
Erosion int	This was a 2017 Storm Damage site. Erosion into waterside berm. Monitor.						
Site ID No:388 Site Designation:LMA-215							

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

## **Levee Inspection Report By Mile - Spring 2020**

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/17/2020 04/17/2020	David Julian

LM Start	0.90	Rating **	М	Issue No.		72
LM End	0.90	Issue Type +	En	Location *		
Category Supplemental				GPS La	titud	le/Longitude
Calegory				Start		End
Item	DWR UCI	P Field Study		38.2906	84 °	38.290684°
item				-121.7356	68 °	-121.735668 °
DWR ID	22067					

## Inspector Comment

Comment Code

DS\_ID:22067 FS\_ID:18727 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Seem abandoned.Not found- pump on LS. Needs

more exploration.

FIELD\_STRUCT\_DESC: 6-inch steel irrigation discharge pipe through the levee, 2.8 feet below the crown. Pump on the landside (LS). Gate valve on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 107, April 1959, (HLM 0.4), 10-inch pipe referenced].

FS Date: 8/15/2013

LM Start	0.90	Rating **	М	Issue No.	72 (cont)
LM End	0.90	Issue Type +	En	Location *	

### Photo 1 of 2: UCIP\_SP\_2020\_18727\_31317.jpg



Waterside view: levee slope.

Photo 2 of 2: UCIP\_SP\_2020\_18727\_31316.jpg



Waterside view: levee slope and a steel pipe.

### Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/17/2020 04/17/2020	David Julian

LM Start	0.90	Rating **	М	Issue No.	73		
LM End	0.90	Issue Type +	En	Location *			
Category				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	P Field Study		38.2906	84 °	38.290684 °	
item				-121.7356	39°	-121.735639 °	
DWR ID	22063						
Comment Code							

### Inspector Comment

DS\_ID:22063 FS\_ID:18726 EP\_NO: 6342

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Leaky siphon breaker may need to be repaired.

Dense vegetation on WS.Not found- gate valve on LS.

FIELD\_STRUCT\_DESC: 16-inch coated steel drainage discharge pipe through the levee, 8 feet below the crown. Vertical pump in drainage ditch on the landside (LS). Gate valve on the LS. Siphon breaker on the waterside (WS). (Plans to replace a 10-inch drainage pipe through the levee authorized under Permit No. 6342, 1968 - Hastings Farms. Plans to revise plans by changing pipe size from 10-inch to 16-inch through the levee authorized under Permit No. 6342-A, 1971 - Hastings Farms). FS Date: 8/15/2013

3 Date: 6/13/2013

LM Start	0.90	Rating **	М	Issue No.	73 (cont)
LM End	0.90	Issue Type +	En	Location *	



Landside view: pump, service pole, steel support structure, walkway, and pipe.

Photo 2 of 3: UCIP\_SP\_2020\_18726\_31313.jpg



Landside view: pipe and pump on steel structure in drain ditch.

## Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/17/2020 04/17/2020	David Julian

LM Start	0.90	Rating **	М	Issue No.		73 (cont)	
LM End	0.90	Issue Type +	En	Location *			
Category Supplemental				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	P Field Study		38.2906	34 °	38.290684	0
item				-121.7356	39°	-121.735639	0
DWR ID	22063						



Waterside view: only leaky siphon breaker found.

LM Start	1.22	Rating **	U	Issue No.		20			
LM End	1.22	Issue Type +	Ма	Location *		WS			
Category Earthen Levee				GPS Lati	tuc	le/Longitude			
Calegory				Start		End			
Item	Erosion / Bank Caving			38.29051	ı°	38.290511 °			
пеш			-121.729828	°	-121.729828 °				
DWR ID	LMA-217								
	Commont Code								

Comment Code
E2 : Schedule repair of erosion site prior to the next inspection.

### Inspector Comment

This was a 2017 Storm Damage site.

Erosion about halfway down the waterside slope.

Site ID No:390

Site Designation:LMA-217

### Photo 1 of 1: SP\_2020\_RD2060\_243\_20\_20200420\_00085.jpg



View looking upstream at erosion into the waterside slope (Spring 2020).

## **Levee Inspection Report By Mile - Spring 2020**

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/17/2020 04/17/2020	David Julian

LM Start	1.38	Rating **	A/W	Issue No.		21	
LM End	1.42	Issue Type +	Ма	Location *		WS	
Category	GPS Latitude/Longitude						
Calegory				Start		End	
Item	Erosion / Bank Caving			38.29006	7 °	38.289608	۰
пеш		-121.72683	9°	-121.726344	۰		
DWR ID	LMA-320						

### Comment Code

E1: Note and monitor erosion site.

### Inspector Comment

This was a 2017 Storm Damage site. MBK Delta Erosion Sites\_6-29-2017 Site ID No:482

Site Designation:LMA-320 Field Date:8/29/2017

4/17/2020 Notes: Did not see any erosion. Do boat inspection to verify.

Monitor.



LM Start	1.45	Rating **	A/W	Issue No.		22	
LM End	1.59	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	e/Longitude		
Calegory				Start		End	
Item	Erosion /	Bank Caving		38.2892	56 °	38.287689	0
item				-121.7260	50°	-121.724658	0
DWR ID	LMA-219						

### Comment Code

E1: Note and monitor erosion site.

### Inspector Comment

2017 Storm Damage Site

Erosion commences halfway down the slope and results in slippage into the waterside toe.

Site ID No:392

Site Designation:LMA-219

4/17/2020 Field Notes: Unable to see erosion. Verify with boat inspection. Monitor.

Photo 1 of 1: SP\_2020\_RD2060\_243\_22\_20200304\_00021.jpg



LS: Land Side N/A: Not Applicable

WS : Water Side

CR : Crown

: Acceptable Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected

A/W: Acceptable but Monitor & Maintain

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

## Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/17/2020 04/17/2020	David Julian

LM Start	1.62	Rating **	A/W	Issue No.		23
LM End	1.63	Issue Type +	Ма	Location *	WS	
Category	Earthen L	evee	GPS Latitude/Longitude			
Calegory				Start		End
Item	Erosion /	Bank Caving		38.28733	36 °	38.287222
пеш				-121.72436	64 °	-121.724253
DWR ID	LMA-220					

Comment Code E1 : Note and monitor erosion site.

Inspector Comment

This was a 2017 Storm Damage site.

Erosion commences halfway down the slope and results in slippage into the waterside toe. Existing rip rap has sloughed into the water side toe.

Site ID No:393

Site Designation:LMA-220

4/17/2020 Notes: Swarm of bees did not allow for inspection. Verify with boat inspection. Monitor.

Photo 1 of 1 : SP_2020_RD2060_243_23_20200304_00023.jpg	
STANDARD BURNESS STATE	
ATT WILL BE THE STATE OF THE ST	

LM Start	1.65	Rating **	A/W	Issue No.		24	
LM End	1.73	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS Lat	titud	e/Longitude	
Category				Start		End	
Item	Erosion /	Bank Caving		38.28695	3 °	38.285939	0
пеш				-121.72395	8 °	-121.723061	0
DWR ID	LMA-221						

Comment Code

E1: Note and monitor erosion site.

Inspector Comment

This was a 2017 Storm Damage site.

Erosion commences halfway down the slope. Existing rip rap has sloughed into the water side toe.

Site ID No:394

Site Designation:LMA-221

4/17/2020 Field Notes: Swarm of bees did not allow for inspection.

Verify with boat inspection. Monitor.

## **Levee Inspection Report By Mile - Spring 2020**

# **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/17/2020 04/17/2020	David Julian

LM Start	1.84	Rating **	М	Issue No.		25	
LM End	1.92	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Erosion /	Bank Caving		38.2848	25 °	38.284467 °	
пеш				-121.7217	64 °	-121.720339 °	
DWR ID	LMA-222					·	
		Comn	nent Coc	le			
E2 : Sched	dule repair	of erosion sit	e prior to	the next in	spec	ction.	
Inspector Comment							
This was a Erosion at		rm Damage s side toe.	ite.				

Photo 1 of 2 : SP\_2020\_RD2060\_243\_25\_20200304\_00025.jpg

 LM Start
 1.84
 Rating \*\*
 M
 Issue No.
 25 (cont)

 LM End
 1.92
 Issue Type +
 Ma
 Location \*
 WS

Photo 2 of 2: SP\_2020\_RD2060\_243\_25\_20200304\_00026.jpg



CR : Crown

Site ID No:395

Site Designation:LMA-222

LS : Land Side N/A : Not Applicable WS : Water Side

| '

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated

C : Corrected

A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En : Enforcement

### Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/17/2020 04/17/2020	David Julian

LM Start	2.02	Rating **	A/W	Issue No.		5
LM End	2.60	Issue Type +	Ma	Location *		WS
Category	Suppleme	ental	GPS La	le/Longitude		
Calegory				Start	End	
Item	2017 USA	CE Erosion S	Survey	38.2841	20 °	38.277633 °
пеш				-121.7185	77 °	-121.711912 °
DWR ID DWR_RD2060_03_f _ 2018_5						
		Comn	nent Cod	de		

No Photos

Inspector Comment

2017 Site ID: CHS 22.9 R

Status: Eroding

2017 Field Notes: Sites 22.5, 22.6, 22.8, and 22.9 were combined into one long erosion site due to due erosion.

Site History: 2007 - Geotechnical failure of midside slope and wave wash/scalloping in toe area. Stone revetment upstream and downstream of site. Similar sites are present all along the right bank downstream of this site, most could be repaired with some maintenance. 2008 - Small scour pockets and mid-slope wave wash. 2010 - Minor new erosion. 2011 - Site extended downstream and new erosion. 2013 - Pockets of erosion behind willows and extending into the levee toe. 2015 - Erosion pockets have increased in size. 2016 - Rock has been placed in some of the pockets.

2020 - erosion extent includes several 2017 storm damage sites. Site Numbers - 396, 397, 398, 399, 400, 401, 402, 403. LMA Site IDs - LMA-223, LMA-224, LMA-225, LMA-226, LMA-227, LMA-228, LMA-229, LMA-230.

LM Start	2.02	Rating **	М	Issue No.		9	
LM End	5.03	Issue Type +	Ma	Location *		LS	
Category	Earthen L	then Levee		GPS La	e/Longitude		
Category				Start		End	
Item	Vegetatio	n		38.2839	70°	38.247385 °	
пеш				-121.7187	09 °	-121.696291 °	
DWR ID DWR_RD2060_03_s _ 2020_9							
	Comment Code						

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

\* Location

LS: Land Side N/A: Not Applicable WS: Water Side

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

## **Levee Inspection Report By Mile - Spring 2020**

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/17/2020 04/17/2020	David Julian

LM Start	2.02	Rating **	M	Issue No.	10		
LM End	5.03	Issue Type +	Ma	Location *	WS		
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Vegetatio	n		38.2839	70°	38.247385 °	
пеш				-121.7187	09 °	-121.696291 °	
DWR ID	DWR_RD2	060_03_s _ 202	20_10				
		Comn	nent Coc	de			
	V1 : Control annual grass and weeds on the levee slopes and easements.						
	Inspector Comment						

No Photos

LM Start	2.64	Rating **	A/W	Issue No.		35	
LM End	2.64	Issue Type +	Ma Location		WS		
Earthen Levee				GPS La	titud	e/Longitude	
Calegory	Category				Start		
Item	Erosion /	Bank Caving		38.27710	)6 °	38.277078	0
item				-121.71148	39°	-121.711447	0
DWR ID	LMA-231						

### Comment Code

E1: Note and monitor erosion site.

### Inspector Comment

This was a 2017 Storm Damage site.

Erosion at the waterside toe.

Site ID No:404

Site Designation:LMA-231

4/17/2020 Field Notes: Unable to observe erosion. Do boat inspection to verify. Monitor.

LM Start	2.64	Rating **	A/W	Issue No.	35 (cont)
LM End	2.64	Issue Type +	Ma	Location *	WS

### Photo 1 of 2: SP\_2020\_RD2060\_243\_35\_20200304\_00052.jpg



Photo 2 of 2: SP\_2020\_RD2060\_243\_35\_20200304\_00053.jpg



\* Location

N/A: Not Applicable

LS: Land Side WS : Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected

A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

### Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/17/2020 04/17/2020	David Julian

LM Start	2.69	Rating **	A/W	Issue No.	36		
LM End	2.73	Issue Type +	Ма	Location *	WS		
Category	Catagorii Earthen Levee			GPS Latitude/Longitude			
Calegory	Category			Start		End	
Item	Erosion /	Bank Caving		38.27660	8°	38.276133	0
пеш				-121.71081	1 °	-121.710394	0
DWR ID	LMA-232						
Comment Code							

E1: Note and monitor erosion site.

### Inspector Comment

This was a 2017 Storm Damage site.

Erosion at the landside toe.

Site ID No:405

Site Designation:LMA-232

4/17/2020 Field Notes: Unable to observe erosion. Do boat inspection to verify. Monitor.



LM Start	3.24	Rating **	М	Issue No.		74
LM End	3.24	Issue Type +	En	Location *		
Category	Category Supplemental			GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UC	P Field Study		38.27015	61 °	38.270151 °
item		-121.70578	2°	-121.705782 °		
DWR ID	22064					

# Comment Code

Inspector Comment

DS ID:22064 FS ID:18723 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: Only a CMP riser was found on WS.

FIELD\_STRUCT\_DEŚC: 36-inch asbestos bonded steel irrigation discharge pipe through the levee, 15 feet below the crown, not found. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope, found. Pump in pump house on a pile structure in the stream, not found. Service pole and anchor on the landside (LS) slope, not found.

FS Date: 8/15/2013

CR : Crown

Photo 1 of 3: UCIP\_SP\_2020\_18723\_31303.jpg



WS view: slide gate in CMP riser (bottom- marked) and may be abandoned pile for pump support (marked-right).

Location LS: Land Side

N/A: Not Applicable WS : Water Side

Acceptable Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

## **Levee Inspection Report By Mile - Spring 2020**

# **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/17/2020 04/17/2020	David Julian

LM Start	3.24	Rating **	М	Issue No. 74 (cor		74 (cont)	
LM End	3.24	Issue Type +	En	Location *			
Category	Supplemental			GPS Latitude/Longitude			
Calegory			Start		End		
Item	DWR UC	P Field Study		38.2701	51 °	38.270151	0
item		-121.7057	82 °	-121.705782	0		
DWR ID	22064						



WS view: closer view of slide gate in CMP riser.

LM Start	3.24	Rating **	М	Issue No.	74 (cont)
LM End	3.24	Issue Type +	En	Location *	



WS view: slide gate and air vent inside CMP riser.

LM Start	3.59	Rating **	М	Issue No.		38	
LM End	3.63	Issue Type +	Ma	Location *	WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Erosion /	Erosion / Bank Caving			08 °	38.266047 °	
пеш	tem			-121.701650 °		-121.701061 °	
DWR ID	LMA-322			'			
		Comn	nent Cod	de			
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spe	ction.	
Inspector Comment							
	This was a 2017 Storm Damage site. MBK Delta Erosion Sites_6-29-2017						

Site ID No:484

Site Designation:LMA-322



\* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

\*\* Rating

A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence

U: Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

### Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 2060 Hastings**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	04/17/2020 04/17/2020	David Julian

LM Start	3.66	Rating **	A/W	Issue No.	e No. 39		
LM End	3.71	Issue Type +	Ma	Location *	WS		
Catagoria Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
Item	Erosion /	Bank Caving		38.26574	2°	38.265342 °	
пеш				-121.700522		-121.699881 °	
DWR ID	LMA-321						
Comment Code							

E1: Note and monitor erosion site.

### Inspector Comment

2017 Storm Damage Site MBK Delta Erosion Sites\_6-29-2017 Site ID No:483

Site Designation:LMA-321

4/17/2020 Field Notes: Unable to view erosion. Verify with a boat survey. Monitor.

RD-2000

[CMA-321]

Williams, derposition score therefore the second to the second to

Photo 1 of 1: SP\_2020\_RD2060\_243\_39\_20200304\_00063.jpg

#### Rating \*\* A/W Issue No. LM Start 3.78 Issue Type + Location \* WS LM End 4.09 Ma Supplemental GPS Latitude/Longitude Category End Start 2017 USACE Erosion Survey 38.264585 ° 38.260593 Item -121.698868 -121.696403 DWR RD2060 03 f 2018 4 DWR ID Comment Code

Inspector Comment 2017 Site ID: CHS 21.1 R

Status: Eroding

2017 Field Notes: Significant toe erosion within last year.
Site History: 2011 - Several pockets of erosion from rotational failure and slumping toe. 2013 - Site extended downstream to include new erosion pockets. 2016 - New rock in one of the erosion spots.
2020 - erosion extent includes several 2017 storm damage sites. Site Numbers - 410, 411, 412. LMA Site IDs - LMA-237, LMA-238, LMA-239.

### Photo 1 of 1: SP\_2020\_RD2060\_243\_4\_20200304\_00001.jpg



USACE 2013 Photo #1